

Notice of Allowability

Application No.

10/691,544

Applicant(s)

BURNETT, CARL M.

Examiner

Jack M. Choules

Art Unit

2167

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interviews 1 and 2 May.
2. ☒ The allowed claim(s) is/are 1-4, 8, 12, 14 and 17-26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>605</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Alicia M. Choi on 1 May 2006. This interview was considered to be fully responsive to the outstanding non-final office action mailed 29 March 2006.

The applicants have represented, and the examiner agrees, that no new matter is being presented. The paragraph added to the specification recites elements already graphically presented in figure 26 thus is not new mater. The changes to figure approved by the examiner only add new reference numbers and do not effect the information presented. The material added to the claims based on at least the abstract of the disclosure and pages 29 and 30 of the specification.

The application has been amended as follows:

The specification and claims 1, 8, 12, 25, and 26 have been amended as follows:

Amendments made to the specification starts on page 3.

Amendments made to the claims starts on page 4.

Claims 2-4, 14, and 17-24 remain as previously presented and may be found in the applicant's last amendment filed 13 February 2006.

The specification has been amended to add the following paragraph at page 29 after line 5:

FIG. 26 illustrates a geospatial information processing (GEOCode) 104 in UML Class notation and 110 in an all-numeric representation, in accordance with an embodiment of the present invention. For exemplary purposes, the GEOCode in UML Class notation 104 and 110 in numeric representation of the GMIPS provides geospatial positional location and point identification referencing for visual and audio information of a single family house 102 in accordance with an embodiment of the present invention. The GEOCode 110 provides a numeric representation converted from longitude and latitude in geographic degree, minutes, and seconds (DMS) coordinate alphanumeric representations or decimal equivalent geographic coordinate alphanumeric representations and altitude alphanumeric representations 106a – 106e into individual discrete all-natural number geographic coordinate and measurement representations of longitude 112, latitude 114, altitude 116 and additional spatial information 118 and 120 (i.e., individual all-numeric geospatial data attributes). The GEOCode in all-numeric representation 110 concatenates 112 - 120 the individual discrete all-natural number geographic and measurement representations into a single discrete all-natural number geospatial coordinate measurement representation 110 for identification of a geospatial positional location and point identification at, below, or above earth's surface, in this case the geospatial positional location and point identification reference of the single family house. The single discrete all-natural number geospatial coordinate measurement representation 110 may include longitude 112, latitude 114, altitude 116, timestamp 118 including year, month, day, hour, minute, second, and UTC time zone 120 and other spatial information.

Claims 1, 8, 12, 25, and 26 have been amended as follows:

1. (Currently Amended) A geospatial media recorder, comprising:

converting means for converting longitude and latitude geographic degree, minutes, and seconds (DMS) coordinate alphanumeric representations or decimal equivalent geographic coordinate alphanumeric representations and altitude alphanumeric representations into individual discrete all-natural number geographic coordinate and measurement representations; and

combining means for concatenating the individual discrete all-natural number geographic coordinate and measurement representations into a single discrete all-natural number geospatial coordinate measurement representation for identification of a geospatial positional location at, below, or above earth's surface allowing a user to geospatially reference entities or objects based on the identified geospatial positional location and point identification.

8. (Currently Amended) An acquisition module for acquiring geospatial data, said acquisition module comprising:

encoding means for encoding geospatial data onto a data segment of a video frame at a time of geospatial data acquisition;

capturing means having a geospatial receiver interconnected with a focus element at a first location, said capturing means being configured for capturing information of an entity at a second location, and geospatially referencing the second

location to the first location in accordance with a focus ratio of the focus element and geospatial data associated with the geospatial receiver; and

converting means for converting latitude and longitude coordinates or decimal equivalent coordinates and additional spatial information into a concatenated single discrete all-natural numeric geospatial data format for encoding onto the data segment of the video frame at a time of media acquisition allowing a user to geospatially reference entities or objects based on the encoded concatenated single discrete all-natural numeric geospatial data format.

12. (Currently Amended) A geospatial information processing method comprising:

converting latitude and longitude geographic degree, minutes, and seconds (DMS) coordinate alphanumeric representations or decimal equivalent geographic coordinate alphanumeric representations and altitude alphanumeric representations into individual discrete all-natural number geographic coordinate and measurement representations; and

concatenating the individual discrete all-natural number geographic coordinate and measurement representations into a single discrete all-natural number geospatial coordinate measurement representation for identification of a geospatial positional location at, below, or above earth's surface allowing a user to geospatially reference entities or objects based on the identified geospatial positional location and point identification.

25. (Currently Amended) A geospatial media recorder, comprising:

- a converter configured to convert longitude and latitude geographic degree, minutes, and seconds (DMS) coordinate alphanumeric representations or decimal equivalent geographic coordinate alphanumeric representations and altitude alphanumeric representations into individual discrete all-natural number geographic coordinate and measurement representations; and
- a converting unit configured to concatenate the individual discrete all-natural number geographic coordinate and measurement representations into a single discrete all-natural number geospatial coordinate measurement representation for identification of a geospatial positional location at, below, or above earth's surface allowing a user to geospatially reference entities or objects based on the identified geospatial positional location and point identification.

26. (Currently Amended) A geospatial media recorder configured to record geospatial data at a location, comprising:

- a media capturing unit configured to acquire geospatial referenced visual and audio information; and
- a geospatial media encoder having a geospatial receiver, the geospatial media encoder configured to
 - capture geospatial location information of the media recorder at a first location,

geospatially reference a second location to the first location in accordance with the geospatial data associated with the geospatial receiver,

calculate at the first location and during media acquisition geospatial location of the objects or entities at the second location using field measurements of the objects or entities at the second location based on the geospatial data of the media recorder, and

convert latitude and longitude coordinates and additional spatial information comprising date, local time, and global time into the individual discrete all-natural number geographic coordinate and measurement representations for encoding onto a video frame at a time of media acquisition allowing a user to geospatially reference entities or objects based on the encoded concatenated single discrete all-natural numeric geospatial data format.

The following changes to the drawings have been approved by the examiner and agreed upon by applicant: The applicant has agreed to changes in figure 26 to add index numbers to the elements in the claims to improve understanding of the description of figure 26 relates to the figure 26 as follows: a single family house is element "102," GEOCode in UML notation is labeled element "104," Longitude of the GeoSpatial Code is labeled element "106a," GeoCoordinate of the GeoSpatial Code is labeled element "106b," Altitude of the GeoSpatial Code is labeled element "106c," Timestamp of the GeoSpatial Code is labeled element "106d," and UTC Time Zone of the GeoSpatial Code is labeled element "106e." The single discrete all-natural number numeric

Longitude attribute is element "112," the single discrete all-natural number numeric
Latitude attribute is element "114," the single discrete all-natural number numeric
Altitude attribute is element "116," the single discrete all-natural number numeric
Timestamp attribute is labeled element "118," and the single discrete all-natural number
numeric UTC time zone attribute is element "120." GEOCode in a single discrete all-
natural number geospatial coordinate measurement representation is labeled as
element "110." No new matter is being presented and approval is respectfully
requested. The additions are shown circled in red on the attached copy of drawing 26.
In order to avoid abandonment of the application, applicant must make these above
agreed upon drawing changes.

The following is an examiner's statement of reasons for allowance: As noted in
the previous office action, applicant's arguments filed 13 February 2006 have been fully
considered and found to be persuasive as directed to the rejection under 35 U.S.C. §
102 and 35 U.S.C. § 103 over the prior art of record, thus the claims are considered
distinct and non obvious over the art of record.

As to the question of whether the claims are statutory, the claims have been
amended to improve clarity and to place the claims within the scope of patentable
subject matter under 35 U.S.C. §101. As such, in view of the amendments to the
claims, Applicant respectfully requests that the rejection under 35 U.S.C. §101 be
reconsidered and withdrawn.

Support for the amended recitations “allowing a user to geospatially reference entities or objects based on the identified geospatial positional location and point identification,” and “allowing a user to geospatially reference entities or objects based on the encoded concatenated single discrete all-natural numeric geospatial data format,” may be found, at least, in the Abstract of the Specification of the present application, which describes that the concatenated data attribute of geospatial data serves to geospatially reference entities or objects in a video segment. According to the Abstract, the geospatial media recorder serves to encode geospatial data onto video frames at the time of video acquisition. Furthermore, FIG. 26 and corresponding description provided on page 29, line 5 and on, describes geospatially referencing entities or objects based on the identified geospatial positional location and point identification and describes geospatially referencing entities or objects based on the encoded concatenated single discrete all-natural numeric geospatial data format. Page 30, lines 8-13, of the Specification also describes that a detailed reporting and compendiums may be generated.


In view of the various figures (for instance, FIGS. 12 and 13) and descriptions presented throughout the Specification, a person of ordinary skilled in the art will appreciate that based on the encoded concatenated single discrete all-natural numeric geospatial data format, a user would be able to locate or reference the entities or objects of interest. The present invention produces a useful, concrete, and tangible (real world) result of allowing a user to reference the geospatial positional location at, below, or above earth's surface of an entity or object of interest.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack M. Choules whose telephone number is (571) 272-4109. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jack M Choules
Primary Examiner
Art Unit 2167

3 May 2006